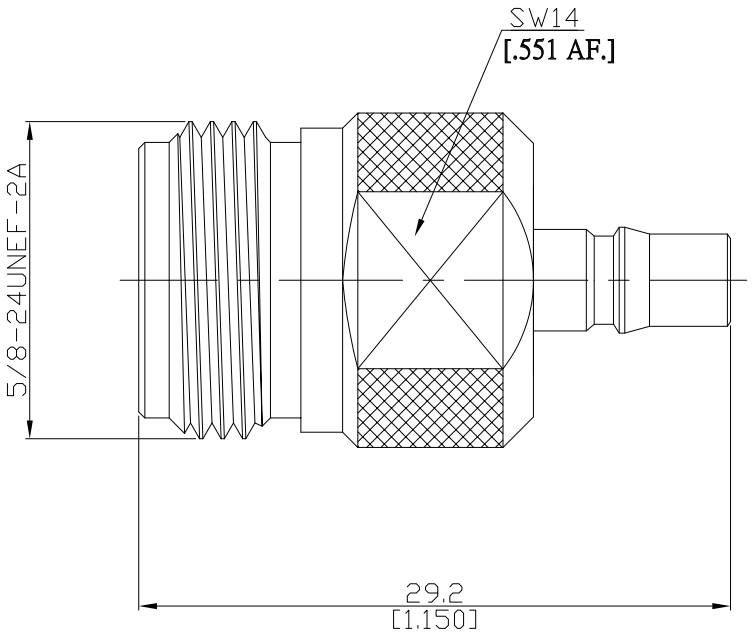
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N jack (female) / QMA jack (female)
Straight Adaptor- Low PIM DC-5.6 GHz VSWR ≤ 1.15

AD-N2QA25A / H4-H4-LP



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

N side According to	IEC 60169-16 ; MIL-STD-348B/402
QMA side according to	N/A

Electrical Data

Impedance	50 Ω
Frequency	DC to 5.6 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion loss	≤ 0.05 x √F (GHz) dB
Insulation resistance	≥ 5 MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
RF-leakage	≥ 95 dB up to 2 GHz
Intermodulation	≤ -130 dBc @ 2 x 20 W, 1800 MHz
PIM level	equal to or better than -154 dBc

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Piece Parts (QMA)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	N side	QMA side
Coupling mechanisms	Snap-lock	Quick-lock
Mating cycles	≥ 500	≥ 200
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.7 Nm to 1.1 Nm	N/A
Engagement force	N/A	typ. 25N
Disengagement force	N/A	typ. 20N
Retention force for interface	N/A	60N min.

Environmental Data

Temperature range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
RoHS	compliant

Packing

Singleor 100

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